INTERNATIONAL SEARCH REPORT

PCT/EP2004/006238

A. CLAS	SIFICATION OF SUBJECT MATTER		17EP2004/006238	
IPC 7	C22B19/04 C22B19/34 C22 C22B13/02	B5/10 C22B5/12	C22B5/16	
According	to International Patent Classification (IPC) or to both national	classification and the		
D. FIELD	3 SEARCHED			
Minimum o	documentation searched (classification system followed by da	ssification symbols)		
IPC /	C22B	comodion symbols)		
Document	ation searched other than minimum documentation to the exter			
	to the external to the externa	il that such documents are included i	n the fields searched	
Flectronic	data baca			
EDO T	data base consulted during the international search (name of	tata base and, where practical, search	th terms used)	
EPO-Ir	nternal, COMPENDEX		•	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of	the relevant		
	, appropriate, or	me relevant passages	Relevant to dalm No.	
Α	HEARD R ET AL.: "Recycling o	c		
	Zinc-Bearing Residues with the	T PPTMUS	1-12	
	110CE22	= LKIMO2		
	IRON STEELMAKER I AND SM,			
	vol. 30, no. 4, April 2003 (20	003-04),	j	
	pages 55-60, XP009020220 the whole document			
	and whose document			
A j	ESNA-ASHARI M ET AL: "SMELTIN			
	I FOR RECOVERING VINC FROM INDUC	1-12		
	TING DEVICING KEZIDILEZ.			
	ERZMETALL, RIEDERER VERLAG GME STUTTGART, DE,	BH.	1	
	vol. 53, no. 6, 2000, pages 37	6. 2000 pages 372-204		
ŀ	AF 000959985			
j	ISSN: 0044-2658	· }		
ľ	* Figure 1; pages 374-375 *			
- 1		,		
		-/		
 _				
	er documents are listed in the continuation of box C.	χ Patent family members	are listed in annex.	
Special cate	egories of cited documents :			
documen	nt defining the general state of the art which is not	"T" later document published aff or priority date and not in common time.	er the international filing date onflict with the application but	
	ocument but published on or afforthe internal	cited to understand the prin	ciple or theory underlying the	
* document	t Which may throw doubte as and the	"X" document of particular releva	ance; the claimed invention or cannot be considered to	
which is citation (cited to establish the publication date of another or other special reason (as specified)	mineria di minerima Step Mi	180 IDA COCUMANT IS TOLON SISS	
other me	Il referring to an oral disclosure, use and the	"Y" document of particular releva- cannot be considered to inv	ance; the claimed invention volve an inventive step when the	
* document	1 published prior to the intermetion of an	ments, such combination be	one or more other such docu- eing obvious to a person skilled	
	printy data didined	in the art. *&* document member of the sar		
ite of the ac	dual completion of the international search	Date of mailing of the interna		
15	September 2004	į .	oomon reputt	
		23/09/2004		
me and ma	Illing address of the ISA	Authorized officer		
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk			
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Bjoerk, P		

INTERNATIONAL SEARCH REPORT

rnational Application No PCT/EP2004/006238

C(Continu	etion) DOCUMENTS CONCIDENTS TO DE CO	PCT/EP2004/006238					
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.							
	passages	Relevant to claim No.					
P	WO 98/36102 A (BUCKETT GRAHAM ALAN ;BUKA TECH PTY LTD (AU); FOUNTAIN CHRISTOPHER) 20 August 1998 (1998-08-20) * page 20, lines 13-29 *	6					
A	DATABASE COMPENDEX 'Online! ENGINEERING INFORMATION, INC., NEW YORK, NY, US; DE SCHEPPER A: "Liquid-liquid extraction of germanium by LIX-63" XP002260042 Database accession no. EIX78110005759 abstract & CHLORIDE HYDROMETALL, INT SYMP, PROC, 26 September 1977 (1977-09-26), - 28 September 1977 (1977-09-28) pages 357-384, Brussels, Belgium	7					
4	GB 2 094 772 A (SAMIM SOC AZIONARIA MINERO MET) 22 September 1982 (1982-09-22) * page 1; lines 78-97 *	1–12					
1	US 6 379 421 B1 (GUERRA-REYES MARIA TERESA ET AL) 30 April 2002 (2002-04-30) * Figure 1; column 3, lines 34-56 *	1-12					
	US 4 415 540 A (WILKOMIRSKY IGOR A E ET AL) 15 November 1983 (1983-11-15) cited in the application the whole document	1-12					

INTERNATIONAL SEARCH REPORT

information on patent family members

rnational Application No PCT/EP2004/006238

				004/000238
Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 9836102	A 20-08-1998	AU WO ZA	5974398 A 9836102 A1 9801286 A	08-09-1998 20-08-1998 17-08-1999
GB 2094772	A 22-09-1982	IT BE CS DE DK FR GR IE LU NL SE SE YU	1137505 B 892470 A1 235010 B2 3207026 A1 99782 A 2501723 A1 75875 A1 52611 B1 83997 A1 8201028 A 462978 B 8201569 A 54482 A1	10-09-1986 13-09-1982 16-04-1985 16-09-1982 14-09-1982 17-09-1982 02-08-1984 23-12-1987 22-02-1983 01-10-1982 24-09-1990 14-09-1982 20-03-1985
US 6379421	B1 30-04-2002	AU EP ES WO	3317600 A 1165845 A2 2200665 A1 0050649 A2	14-09-2000 02-01-2002 01-03-2004 31-08-2000
US 4415540	A 15-11-1983	CA AU BE DE FI FR GB IE JP US US US ZA	1121605 A1 526363 B2 4608479 A 876054 A1 2914823 A1 791433 A ,B, 2424962 A1 2020261 A ,B 48112 B1 1456140 C 54147102 A 63000494 B 4317803 A 4619814 A 4224122 A 7901583 A	13-04-1982 06-01-1983 08-11-1979 03-09-1979 15-11-1979 06-11-1979 30-11-1979 14-11-1979 03-10-1984 09-09-1988 17-11-1979 07-01-1988 02-03-1982 28-10-1986 23-09-1980 28-05-1980

Form PCT/ISA/210 (patent family annex) (January 2004)